Listing of the Claims:

1. (currently amended) A method for treating an area of a semiconductor wafer surface to reduce surface irregularities and stress concentrations, comprising:

providing a semiconductor wafer having scribe streets on an active surface, and a back surface opposing the active surface;

treating the area tracing the scribe streets on a surface of the wafer with a laser to from a grid-like pattern matching the scribe streets, wherein the [[treated]] traced area is melted by a laser beam and re-solidifies into a more planar profile.

- 2. (original) The method of claim 1, wherein the treated area is ablated by the laser beam, vaporizing at least a portion of the surface irregularities.
- 3. (original) The method of claim 1, wherein the laser is a diode-pumped, charge-loaded laser.
- 4. (original) The method of claim 3, wherein the laser is a soft-marking laser.
- 5. (original) The method of claim 4, wherein the laser is emits green laser light.
- 6. (original) The method of claim 4, wherein the laser emits infrared laser light.
- 7. (original) The method of claim 4, wherein the laser is selected from a set consisting of an Nd:YAG laser, a frequency-doubled Nd:YAG laser, an excimer laser, a helium-neon laser, and a carbon-dioxide laser.
- 8-23. (canceled)
- 24. (new) The method of claim 1, in which the gird-like pattern is on the active surface.
- 25. (new) The method of claim 1, in which the gird-like pattern is on the back surface.
- 26. (new) The method of claim 1, further comprising sawing the wafer along the scribe streets and forming kerfs extending towards the back surface.

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27. (new) The method of claim 26, in which the gird-like pattern has a width wider than the kerfs.